



General Electric Company
Vallecitos Nuclear Center
P.O. Box 460, Vallecitos Road
Pleasanton, CA 94566

March 31, 1994

U.S. Nuclear Regulatory Commission
Washington, D.C. 20555


Attention: Document Control Desk

Reference: License DR-10, Docket 50-183

Gentlemen:

Enclosed are three signed copies of Annual Report No. 26 for the ESADA-Vallecitos Experimental Superheat Reactor (deactivated).

Sincerely,


G. E. Cunningham
Senior Licensing Engineer
(510) 862-4330

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Enclosures

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GE Nuclear Energy

Vallecitos Nuclear Center
Pleasanton, California

ESADA-VALLECITOS EXPERIMENTAL

SUPERHEAT REACTOR

(DEACTIVATED)

ANNUAL REPORT NO. 26

LICENSE DR-10
DOCKET 50-183

ESADA-VALLECITOS EXPERIMENTAL SUPERHEAT REACTOR
(DEACTIVATED)

ANNUAL REPORT NO. 26

General Electric Company has maintained the ESADA Vallecitos Experimental Superheat Reactor (EVESR) in a deactivated status under the authority of Amendment No. 3 to License DR-10, Docket 50-183, issued June 11, 1976. In this twenty-sixth annual report, a summary is presented as to the status of the facility for the period from January 1, 1993, to December 31, 1993, as required by paragraph 3.E.2. of the license.

I. SUMMARY

The facility remains in essentially the same condition described in the twenty-fifth annual report. Entry into the containment building was made for routine radiation surveys and a general check of conditions throughout the building on December 15, 1993. Approximately 50,000 gallons of water were discovered in the lower level of the building. The water was apparently ground water which entered the reactor building via a deteriorated piping sleeve expansion bellows located in a valve pit adjacent to the building. The water has been pumped out and repairs/preventative actions are scheduled for 1994. The water which is slightly contaminated will be processed through the site liquid waste evaporator.

Radiation levels remain essentially unchanged.

II. STATUS OF FACILITY

Access to the containment building is controlled by the Facility Manager according to written procedures. The reactor vessel and head storage shield plugs, the wooden cover over the fuel storage pool, and the locked covers for the personnel and equipment hatchways remain in place.

III. RADIATION AND CONTAMINATION

Complete radiation and contamination surveys of the facility indicate that the levels remain low. Survey results are tabulated in Table 1. The radiation/contamination levels listed are representative but not necessarily maximum values.

IV. ACTIVITIES

Routine inspections were conducted during this report period.

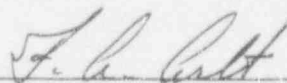
V. ORGANIZATION

There were no organization changes in 1993.

VI. CONCLUSION

The General Electric Company concludes that the deactivated ESADA Vallecitos Experimental Superheat Reactor is being maintained in a safe shutdown condition. The inspections, access control, and administratively controlled activities ensure maximum protection for the public health and safety. The procedures will be continued to maintain this high level of protection.

GENERAL ELECTRIC COMPANY
Vallecitos and Morris Operations



F. A. Arlt, Manager
Facilities Maintenance

TABLE 1. RADIATION AND CONTAMINATION REPORT

Reactor Enclosure

	<u>11/92</u>	<u>12/93</u>
1. Radiation Readings (mR/h gamma)		
a. Top of spent fuel pool (main floor)	1.3	<1.0
b. 549-ft level (main floor)	<1.0	<1.0
c. 534-ft level	<1.0	2.0
d. 519-ft level	1.0-6.0	<1.0
e. 503-ft level (maximum pipe reading)	1.0	<1.0
f. 487-ft level (basement)	<1.0	N/A
2. Air Samples ($\mu\text{Ci/cc}$ air beta-gamma) $\times 10^{-10}$ *		
a. 549-ft level	0.003	0.046
b. 519-ft level	0.021	0.048
c. 487-ft level	0.063	0.032
3. Floor Smears (c/m beta-gamma)**		
549-ft level	300/ft ²	700/ft ²

*24-hour decay.

**For conversion to d/m, assume an instrument efficiency of 20%.

NOTE: Radiation levels, surface smears and air samples may vary from survey to survey as they are taken in general areas rather than at specific locations.